

Bill of materials required to build IDEA 850 hull

plywood panels:

- 7-8 sheets (each sheet 310x150 cm) of 15 mm thickness oukumè or mahogany marine grade plywood (bulkheads and other reinforcements)
- 13-14 sheets (each sheet 310x150 cm) of 12 mm thickness oukumè or mahogany marine grade plywood (deck, cockpit and cabin surfaces)
- 4 plywood sheets (310 x 150 cm each) 12 mm thickness (interiors furnitures): non marine plywood can be used , for aesthetic purposes, as long as you'll take care to protect them with varnish layers ; thickness may vary relying on fittings selected (mainly depends on lockers' hinges)

solid wood components and other stuffs:

- planking: western red cedar or first choice european fir veneers : section 16 x 50 mm, 48 m2 required, that is to say 240 veneers of 4 m length, reduce to 16 x 30 section in the chine area , 15% waste is comprised
- 90-100 kg epoxy resin specific for wooden boat construction
- epoxy system fillers (microspheres, silica etc.)
- biaxial glass fabric 500 g/m2 : approx. 65 kg (peel ply fabric, approx 120 m2 , not mandatory)
- paints, primers, antifouling paints suited for epoxy-wood construction
- solid wood elements, use mahogany or other medium hardness wood:
 - section 30 x 30 mm : 56 linear meters (hull stringers)
 - section 60 x20 mm : 20 linear meters (sheer stringers)
 - section 40 x 20 mm : 20 linear meters (sheer stringers)
 - section 150 x 40 mm : 6 linear meters (keel backbone)
 - section 230 x 40 : 2,5 linear meters (keel backbone central section)
 - section 30 x 30 mm: 17 linear meters (deck stringers)
 - section 30 x 40 mm : 6,5 linear meters (cockpit stringers)
 - 30 thickness boards (backbone vertical element, stempost, beams and floors) : about 7,2 m2 required (that is to say for example 4 boards, 300 x 60 cm each)
- AISI 316 plates nuts and bolts to build chainplates

stuffs required for assembly scaffold:

- mdf , cheap non marine plywood panels or other materials, : 8-9 panels , 310 x 150 cm each, 15 mm approx thickness
- 20 x 5 cm section cheap boards: 30 linear meters
- 7 x 7 cm cheap wooden pillars : 38 linear meters
- other stuff, galvanized steel brackets, self threading screws, threaded bars and glue or other stuffs to fasten the scaffold on the ground

finkeel has to be built in welded steel plates and threaded bars (approx . 100 kg) , bulb must be made in lead (approx 640 kg. Lead)